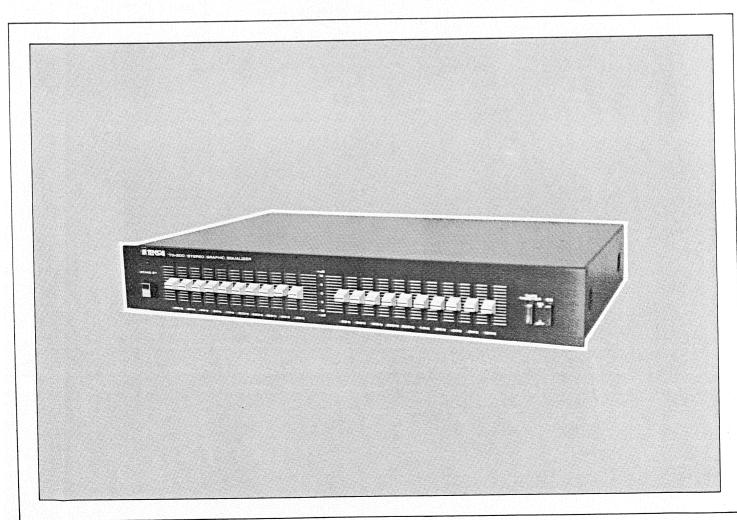
## Service Manual

Stereo Graphic Equalizer Amplifier

**MODEL TQ-200** 





## **SPECIFIACTIONS**

Input Sensitivity

: 1V

Input Impedance Output Impedance

: >47k ohms : <1k ohm

Control Range

: ±12dB

Control Frequency

: 32 Hz, 64 Hz, 125 Hz, 250 Hz, 500 Hz,

1 kHz, 2 kHz, 4 kHz, 8 kHz, 16 kHz

S/N Ratio

>100 dB

Frequency Response

<10 Hz ~ >65 kHz

Distortion

<0.02%

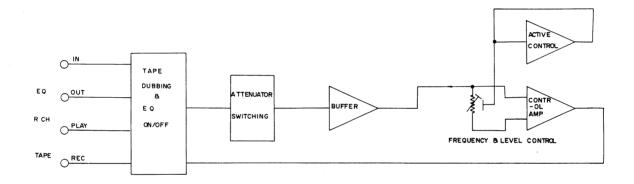
Power Supply Dimensions (WxHxD) 200-240 V ~, 50 Hz 430 x 60 x 284 mm

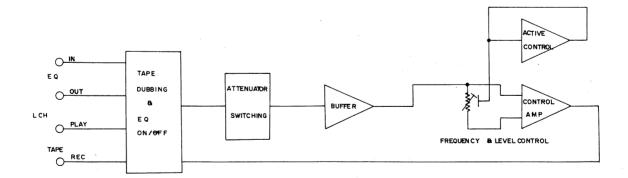
Weight

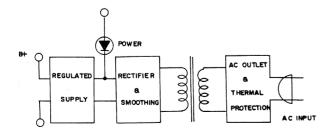
3.75 kg approx.

- Subject to change without notice. -

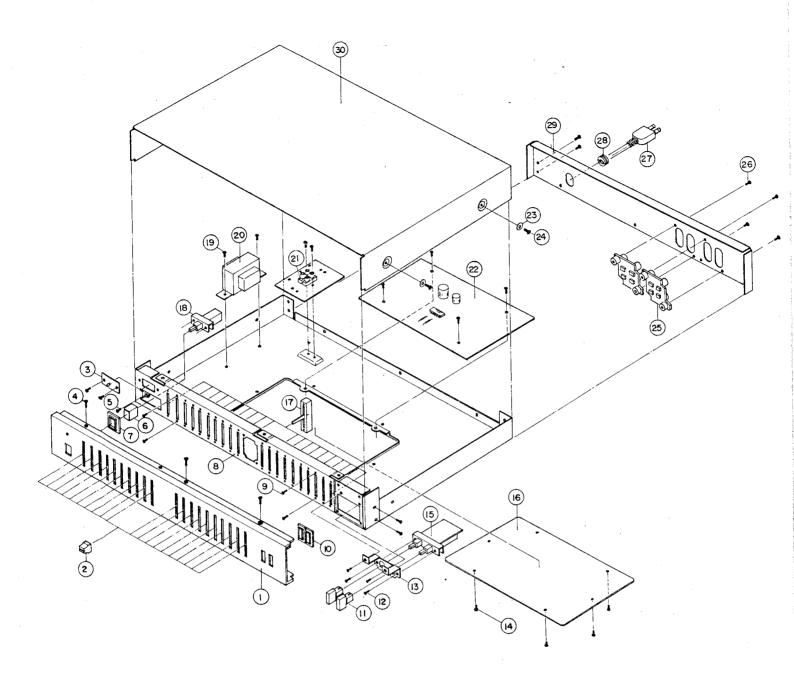
## **BLOCK DIAGRAM**





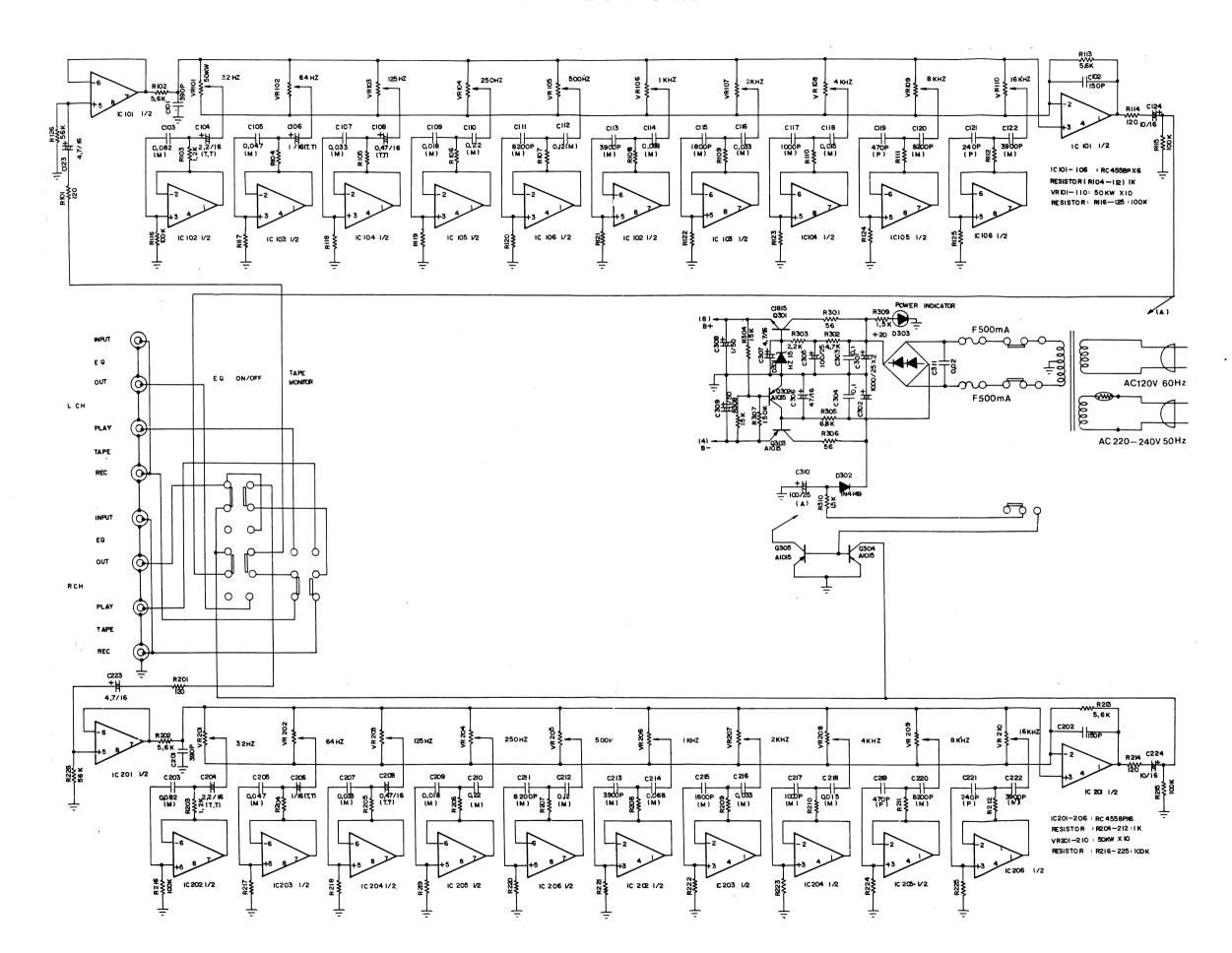


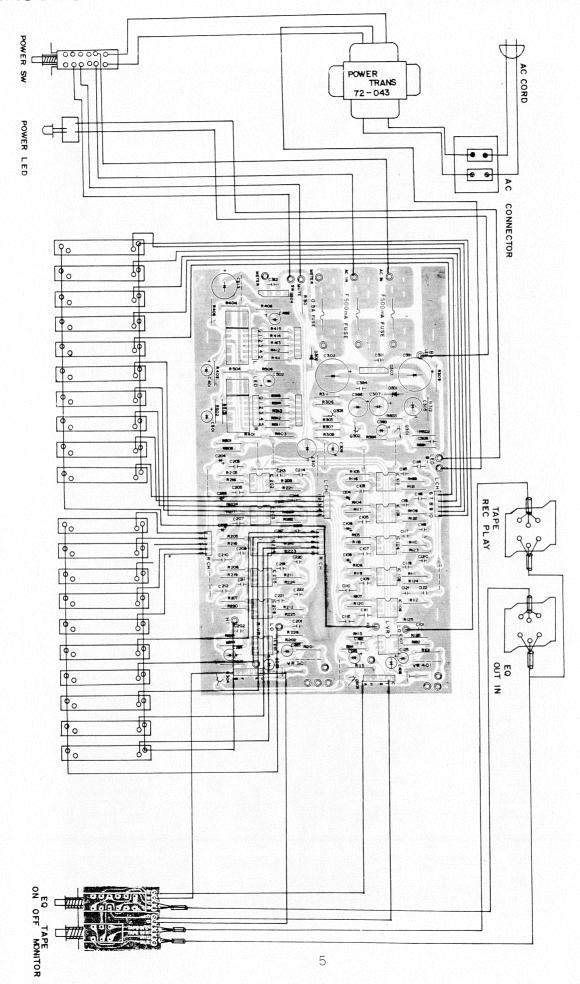
## EXPLODED VIEW AND PARTS LISTS

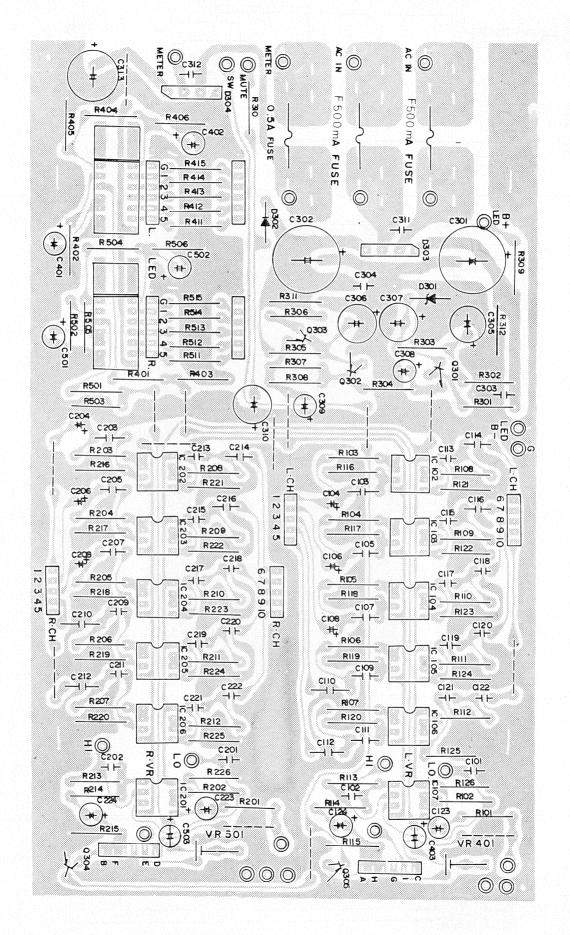


No.	Discription	Q'ty
1	Front Panel	1
2	Slide Knob	20
3	LED P.C Board	1
4	Screw $\phi$ 3x8 Tapping Flat H/D	6
5	Screw M3x0.5x6 Machine P/H	2
6	Power Knob	1
7	Power Bezel	1
8	Main Chassis	1
9	Screw M2x0.4x4 Machine P/H	40
10	Push Bezel	2
11	Push Knob	2
12	Screw M3x0.5x6 Machine P/H	2
13	Push Switch Bracket	1
14	Screw φ3x6 Tapping P/H	1
15	Push Switch	2

No.	Description	Q'ty
16	Bottom Cover	1
17	Slide Potention Meter	20
18	Power Switch	1 1
19	Screw M4x0.7x8 Machine W/Nut	2
20	Power Transformer	1 1
21	A/C Connector	1
22	Main P.C Board	1
23	Fiber Washer	4
24	Screw M4x0.7x8 Truss H/P Silver	4
25	RCA Jack 4P	2
26	Screw $\phi$ 3x8 Tapping P/H Black	11
27	AC Cord	1
28	AC Cord Stopper	1
29	Back Chassis	1
30	Steel Cabinet	1







		: 1	OVAPOL T	DESCRIPTION
SYMBOL	DESCRIPTION		SYMBOL	
R101	120 ohm ±5% ¼W 5.6K ohm ±5% ¼W		C101 C102	390pF 150pF
R102	5.6K ohm ±5% ¼W 1.2K ohm ±5% ¼W		C102	0.082µF/50V (Mylar)
R103 R104	1.2K ohm ±5% ¼W		C104	2.2µF/16V (TagTantalum)
R105	1.2K ohm ±5% ¼W		C105	0.047µF/50V (M)
R106	1.2K ohm ±5% ¼W		C106	1μF/16V (T.T) 0.033μF/50V (M)
R107	1.2K ohm ±5% ¼W		C107	0.033µF/50V (W/) 0.47µF/16V (T.T)
R108	1.2K ohm ±5% ¼W		C108 C109	0.018µF/50V (M)
R109	1.2K ohm ±5% ¼W 1.2K ohm ±5% ¼W		C110	0.22µF/50V (M)
R110 R111	1.2K ohm ±5% ¼W		C111	8200pF/50V (M)
R112	1.2K ohm ±5% ¼W		C112	0.12µF/50V (M)
R113	5.6K ±5% ¼W		C113	3900pF/50V (M)
R114	120 ±5% ¼W		C114	0.068µF/50V (M) 1800pF/50V (M)
R115	100K ±5% ¼W		C115 C116	0.033µF/50V (M)
R116	100K ±5% ¼W 100K ±5% ¼W		C110	1000pF/50V (M)
R117 R118	100K ±5% ¼W		C118	0.015µF/50V (M)
R119	100K ±5% ¼W		C119	470pF (Polyester)
R120	100K ±5% ¼W		C120	8200pF/50V (M)
R121	100K ±5% ¼W		C121	240pF (P) 3900pF/50V (M)
R122	100K ±5% ¼W		C122 C123	4.7µF/16V
R123	100K ±5% ¼W 100K ±5% ¼W		C124	10μF/16V
R124 R125	100K ±5% ¼W		C201	390pF
R126	56K ±5% ¼W	ļ	C202	150pF
R201	120 ohm ±5% ¼W		C203	0.082µF/50V (M) 2.2µF/16V (T.T)
R202	5.6K ohm ±5% ¼W		C204 C205	0.047µF/50V (M)
R203	1.2K ±5% ¼W 1.2K ±5% ¼W		C205	1μF/16V (T.T)
R204 R205	1.2K ±5% ¼W 1.2K ±5% ¼W		C207	0.033µF/50V (M)
R206	1.2K ±5% ¼W		C208	0.47µF/16V (T.T)
R207	1.2K ±5% ¼W		C209	0.018µF/50V (M)
R208	1.2K ±5% ¼W		C210	0.22µF/50V (M) 8200pF/50V (M)
R209	1.2K ±5% ¼W 1.2K ohm ±5% ¼W		C211 C212	0.12µF/50V (M)
R210 R211	1.2K ohm ±5% ¼W		C213	3900pF/50V (M)
R211	1.2K ohm ±5% ¼W		C214	0.068µF/50V (M)
R213	5.6K ±5% ¼W		C215	1800pF/50V (M)
R214	120 ±5% ¼W	-	C216	0.033μF/50V (M) 1000pF/50V (M)
R215	100K ±5% ¼W 100K ±5% ¼W		C217 C218	0.015µF/50V (M)
R216	100K ±5% ¼W 100K ±5% ¼W		C218	470pF (P)
R217	100K ±5% ¼W		C220	8200pF/50V (M)
R219	100K ±5% ¼W		C221	240pF (P)
R220			C222	3900pF/50V (M)
R221			C223	4.7μF/16V 10μF/16V
R222	= - = = = = = = = = = = = = = = = = = =	1	C224	1000µF/25V
R223	50/ 1/10/		C302	1000µF/25V
R225	FO/ 1/1A/		C303	0.1µF
R226	5 56K ±5% ¼W		C304	
R301		}	C305	
R302	= 0/ 1/16/		C306 C307	
R304	2.2.4		C307	
R30	FO/ 1/1AI		C309	1μF/50V
R30	6 56 ±5% ¼W		C310	l
R30	7   150K ±5% ¼W		C311	0.02µF
R30			IC101	RC4558P
R30			10102	
R31	0   1,010 2070 7411		1 1	•

SYMBOL	DESCRIPTION
IC103 #C104 IC105 IC106 IC201 IC202 IC203 IC204 IC205 IC206	RC4558P RC4558P RC4558P RC4558P RC4558P RC4558P RC4558P RC4558P RC4558P
D301 D302 D303	Zener Hz15 1N4149 DBA10B
Q301 Q302 Q303 Q304 Q305	C1815 A1015 A1015 A1015 A1015
VR101 VR102 VR103 VR104 VR105 VR106 VR107 VR108 VR109 VR110 VR201 VR202 VR203 VR204 VR205 VR206 VR207 VR208 VR209 VR210	1